

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	ATTY. DOCKET NO. 6510-173CON	SERIAL NO. Not Available
	APPLICANT Raz et al.	
	FILING DATE Herewith	GROUP Not Available

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
PAD	AA	1,234,718	Filed 90/15/69	Hilleman et al.			
PAD	AB	3,725,545	04/03/73	Maes			
PAD	AC	3,906,092	09/16/75	Hilleman et al.			
PAD	AD	5,286,365	12/07/93	Rudolph et al.			
PAD	AE	5,276,019	01/04/94	Cohen et al.			
PAD	AF	5,278,302	01/11/94	Caruthers et al.			
PAD	AG	5,331,090	07/19/94	Lernhardt			
PAD	AH	5,453,496	09/26/95	Caruthers et al.			
	AI	5,580,859	12/03/96	Felgner et al.			
PAD	AJ	5,703,055	12/30/97	Felgner et al.			
PAD	AK	5,968,909	10/19/99	Agrawal et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
PAD	AL	0 173 254	08/22/85	Europe				
PAD	AM	0 330 227	02/24/89	Europe				
PAD	AN	0 468 520 A2	01/29/92	Europe				
PAD	AO	WO 91/03251	03/21/91	PCT				
PAD	AP	WO 95/26204	10/05/95	PCT				
PAD	AQ	WO96/02555	02/01/96	PCT				
PAD	AR	WO 98/10066	03/12/98	PCT				
PAD	AS	WO98/18810	05/07/98	PCT				

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PAO	AT	WO98/37919	09/03/98	PCT						
PAO	AU	WO98/40100	09/17/98	PCT						
PAO	AV	WO98/52581	11/26/98	PCT						
PAO	AW	WO 98/53075	11/26/98	PCT						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)										
PAO	AX	Ballas et al. (1996) "Induction of NK Activity in murine and human cells by CpG Motifs in oligodeoxynucleotides and Bacterial DNA" <i>The American Association of Immunologists</i>								
PAO	AY	Bennett et al. (1985) "DNA Binding to human leukocytes." <i>The American Society for Clinical Investigation.</i>								
PAO	AZ	Branch (1998) <i>Trends in Biochem. Sci.</i> , Vol. 23;45-50								
PAO	BA	Branda et al. (1996) "Amplification of antibody production by phosphorothioate oligodeoxynucleotides" Mosby-Year Book, Inc.								
PAO	BB	Corry et al. (1996) "Interleukin 4, but Not Interleukin 5 or Eosinophils, is required in a murine model of acute airway hyperreactivity." <i>The Rockefeller University Press</i> , Vol. 183.								
PAO	BC	Crooke (1998) "Antisense Research & Applications." Chapter 1:1-50								
PAO	BD	Davis et al. "Plasmid DNA is superior to viral vectors for direct gene transfer into adult mouse skeletal muscle." <i>Human Gene Therapy</i> , Vol. 4:733-740.								
PAO	BE	Ewel et al. (1992) "Polyinosinic-Polycytidylic Acid complexed with Poly-L-lysine and carboxymethylcellulose in combination with interleukin 2 in patients with cancer: Clinical and immunological effects." <i>Cancer Research</i>								
PAO	BF	Feltquate et al. (1997) "Different T Helper Cell Types and Antibody isotypes generated by saline and gene gun DNA immunization." <i>The Journal of Immunology</i>								
PAO	BG	Fuller et al. (1994) "A Qualitative Progression in HIV Type 1 Glycoprotein 120-Specific Cytotoxic Cellular and Humoral Immune Responses in Mice Receiving a DNA-Based Glycoprotein 120 Vaccine." <i>AIDS Research and Human Retroviruses</i> , Vol. 10								
PAO	BH	Hawkins et al. (1992) "Toward Genetically Targeted Research and Therapeutics." <i>Antisense Research and Development</i>								
PAO	BI	Hohlfeld et al. (1994) "The Immunobiology of Muscle." <i>Immunology Today</i> , Vol. 15.								
PAO	BJ	Iguchi-Arigo et al. (1989) "CpG methylation of the camp-responsive enhancer/promoter sequence TGACGTCA abolishes specific factor binding as well as transcriptional activation." <i>Genes & Development</i>								
PAO	BK	Jachimczak et al. (1993) "the effect of transforming growth factor β -specific phosphorothioate anti-sense oligodeoxynucleotides in reversing cellular immunosuppression in malignant glioma." <i>Journal of Neurosurgery</i> , Vol. 78								
PAO	BL	Jyonouchi et al. (1993) "Immunomodulating actions of Nucleotides: Enhancement of Immunoglobulin Production by Human cord Blood Lymphocytes." <i>Pediatric Research</i> , Vol. 64								
PAO	BM	Kemeny et al. (1992) "CD8+ T cells in allergy." <i>Basic Review Article</i>								
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INFORMATION DISCLOSURE CITATION (000126100000/000000) (Use several sheets if necessary)			ATTY. DOCKET NO. 6510-173CON	SERIAL NO. Not Available
			APPLICANT Raz et al.	
			FILING DATE Herewith	GROUP Not Available
PAD	BN	Kimura et al. (1994) "Binding of oligoguanylate to scavenger receptors is required for oligonucleotides to augment NK cell activity and induce IFN." <i>Science</i> , Vol. 116		
PAD	BO	Klinman et al. (1997) "Contribution of CpG Motifs to the Immunogenicity of DNA Vaccines." <i>The American Association of Immunologists</i> , Vol. 158(8)		
PAD	BP	Krieg (1995) "CpG DNA: A Pathogenic Factor in Systemic Lupus Erythematosus?" <i>Journal of Clinical Immunology</i> , Vol. 15		
PAD	BQ	Krieg et al. (1995) "CpG Motifs in bacterial DNA trigger direct B-cell activation." <i>Nature International Weekly Journal of Science</i> , Vol. 6522.		
PAD	BR	Krieg et al. (1989) "A role for endogenous retroviral sequences in the regulation of lymphocyte activation." <i>The Journal of Immunology</i> , Vol. 143		
PAD	BS	Krieg (1996) "Lymphocyte activation by CpG dinucleotide motifs in prokaryotic DNA." <i>Trends in Microbiology</i> , Vol. 4(2)		
PAD	BT	Lee et al. (1996) "Inhibition of IgE Antibody formation by Plasmid DNA immunization is Mediated by Both CD4+ and CD8+ T Cells." <i>Int'l Archives of Allergy and Immunology</i> , Vol. 113(1-3):227-30		
PAD	BU	Mader et al. (1993) "A steroid-inducible promoter for the controlled overexpression of cloned genes in eukarotic cells." <i>Biochemistry</i> , Vol. 90:5603-5607		
PAD	BV	Manickan et al. (1997) "Enhancement of Immune response to naked DNA Vaccine by Immunization with Transfected dendritic cells." <i>Journal of Leukocyte Biology</i> , Vol. 61		
PAD	BW	Messina et al. (1993) "The Influence of DNA structure in the in vitro simulation of murine lymphocytes by natural and synthetic polynucleotide antigens." <i>Cellular Immunology</i> , Vol. 147		
PAD	BX	Messina et al. (1991) "Stimulation of in vitro murine lymphocyte proliferation by bacterial DNA." <i>The Journal of Immunology</i> , Vol. 147		
PAD	BY	Mojcik et al. (1993) "Administration of a phosphorothioate oligonucleotide antisense to murine endogenous retroviral MCF env. Causes immune effects in vivo in a sequence-specific manner." <i>Clinical Immunology and Immunopathology</i> , Vol. 67		
PAD	BZ	Nakagawa et al. (1993) "Immunotherapy of Allergic Diseases." <i>Int. Arch. Allergy Immunol.</i>		
PAD	CA	Nishida et al. (1991) "Definition of GC-rich motif as regulatory sequence of the human IL-3 gene: coordinate regulation of the IL-3 gene by CLE2/GC box of the GM-CSF gene in T cell activation." <i>International Immunology</i> , Vol. 3		
PAD	CB	Pardoll et al. "Exposing the Immunology of Naked DNA Vaccines." Baltimore, Maryland 21205		
PAD	CC	Pisetsky et al. (1993) "Stimulation of murine lymphocyte proliferation by a phosphorothioate oligonucleotide with antisense activity for Herpes Simplex Virus." <i>Life Sciences</i>		
PAD	CD	Pisetsky et al. "Immunological Properties of Bacterial DNA." <i>Annals New York Academy of Sciences</i> , pg 152-163		
PAD	CE	Ramsay et al. (1994) "Enhancement of Mucosal IgA Responses by Interleukin 5 and 6 Encoded in recombinant vaccine vectors." <i>Reproduction, Fertility and Development</i>		
PAD	CF	Raz et al. (1996) "Preferential induction of a Th1 immune response and inhibition of specific IgE antibody formation by plasmid DNA immunization." <i>Proceedings of the National Academy of Sciences of the United States of America</i> , Vol. 93(10)		
PAD	CG	Raz et al. (1996) "Cytokines and Inflammatory Mediators." XP-002058356		

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INFORMATION DISCLOSURE CITATION (000261 03 00 00 03/ CPMK) (Use several sheets if necessary)		ATTY. DOCKET NO. 6510-173CON	SERIAL NO. Not Available
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PAD	CH	Raz et al. "Intradermal gene immunization: The possible role of DNA uptake in the induction of cellular immunity to viruses." <i>Medical Sciences</i> .	
PAD	CI	Robinson et al. (1993) "Use of direct DNA inoculation to elicit protective immune responses." <i>Journal of Cellular Biochemistry</i>	
PAD	CJ	Sano et al. (1989) "Binding Properties of human anti-DNA antibodies to cloned human DNA fragments." <i>Immunology</i>	
PAD	CK	Sato et al. (1996) "Immunostimulatory DNA Sequences Necessary for Effective Intradermal Gene Immunization." <i>Science</i> , Vol. 273.	
PAD	CL	Schleimer et al. (1992) "IL-4 induces adherence of human eosinophils and basophils but not neutrophils to endothelium." <i>The Journal of Immunology</i>	
PAD	CM	Secrist et al. (1993) "Allergen Immunotherapy Decreases Interleukin 4 Production in CD4+ T cells from Allergic Individuals." <i>The Rockefeller University Press</i> .	
PAD	CN	Sedegah et al. (1994) "Protection against malaria by immunization with plasmid DNA encoding circumsporozoite protein." <i>Vol. 91:9866-9870</i>	
PAD	CO	Sparwasser et al. (1997) "Bacterial DNA causes septic shock." <i>Nature</i> , Vol. 386(6623):336-7	
PAD	CP	Tam et al. (1997) "Oligonucleotide-mediated inhibition of CD28 expression induces human T cell hyporesponsiveness and manifests impaired contact hypersensitivity in mice." <i>The Journal of Immunology</i> , Vol. 158.	
PAD	CQ	Tanaka et al. (1992) "An antisense oligonucleotide complementary to a sequence in Iy2b increases y2b germline transcripts, stimulated B cell DNA Synthesis and Inhibits immunoglobulin secretion." <i>The Journal of Experimental Medicine</i> , Vol. 175	
PAD	CR	Terr <i>Allergy Desensitization</i> , Chapter 56:739-743	
PAD	CS	Ulmer et al. (1993) "Heterologous Protection Against Influenza by injection of DNA encoding a viral protein." <i>Science</i> , Vol. 259	
PAD	CT	Warren (1992) "Adjuvants" XP-002058362	
PAD	CU	Xu et al. (1994) "Protection against leishmaniasis by injection of DNA encoding a major surface glycoprotein gp63 of L. Major." <i>Immunology</i> , pg 173-176	
PAD	CV	Yakubov et al. (1989) "Mechanism of oligonucleotide uptake by cells: Involvement of specific receptors?" <i>Microbiol. Immunol.</i> , Vol. 38(10)	
PAD	CW	Yamamoto (1994) "Commemorative lecture of receiving Imamura Memorial Prize. II. Mode of action of oligonucleotide fraction extracted from Mycobacterium bovis BCG" <i>Kekkaku (Japan)</i> , Vol. 69(9):571-4.	
PAD	CX	Yamamoto et al. (1992) "Unique Palindromic sequences in synthetic oligonucleotides are required to induce INF and augment INF-Mediated natural killer activity." <i>The Journal of Immunology</i> , Vol. 148.	
PAD	CY	Yamamoto et al. (1994) "Ability of oligonucleotides with certain palindromes to induce interferon production and augment natural killer cell activity is associated with their base length." <i>Antisense Research and Development</i>	
PAD	CZ	Yamamoto (1994) "Lipofection of synthetic oligodeoxyribonucleotide having a palindromic sequence of AACGTT to Murine Splenocytes enhances interferon production and natural killer activity." <i>Microbiol. Immunol.</i> , Vol. 38(10)	

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PAO	DA	Zhao et al. (1993) "Comparison of cellular binding and uptake of antisense phosphodiester, phosphothioate, and mixed phosphorothioate and methylphosphonate oligonucleotides." <i>Antisense Research and development</i> , Vol. 3	
PAO	DB	Meeting Report, "International Meeting on the Nucleic Acid Vaccine for the prevention of Infectious Disease and Regulating Nucleic Acid (DNA) Vaccines." <i>Natcher Conference Center NIH</i>	
PAO	DC	Multi-Test Directions for Use, New York 11050	
PAO	DD	(September 30, 1993) <i>Biochemical and Biophysical Research Communication</i> , Academic Press, Inc. <i>Author?</i>	

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EXAMINER Patricia A. Duffy	DATE CONSIDERED 4/30/04
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